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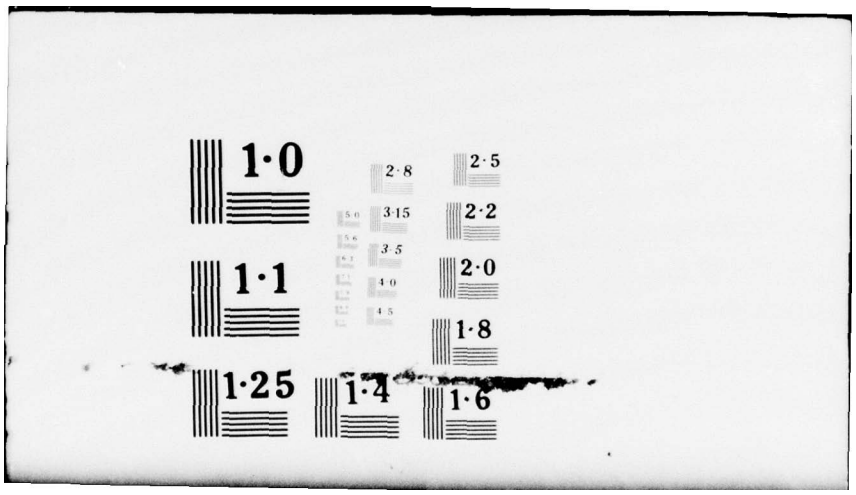
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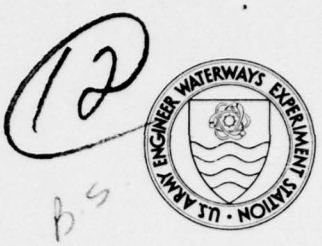

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SUPPLEMENT NO. 1

by

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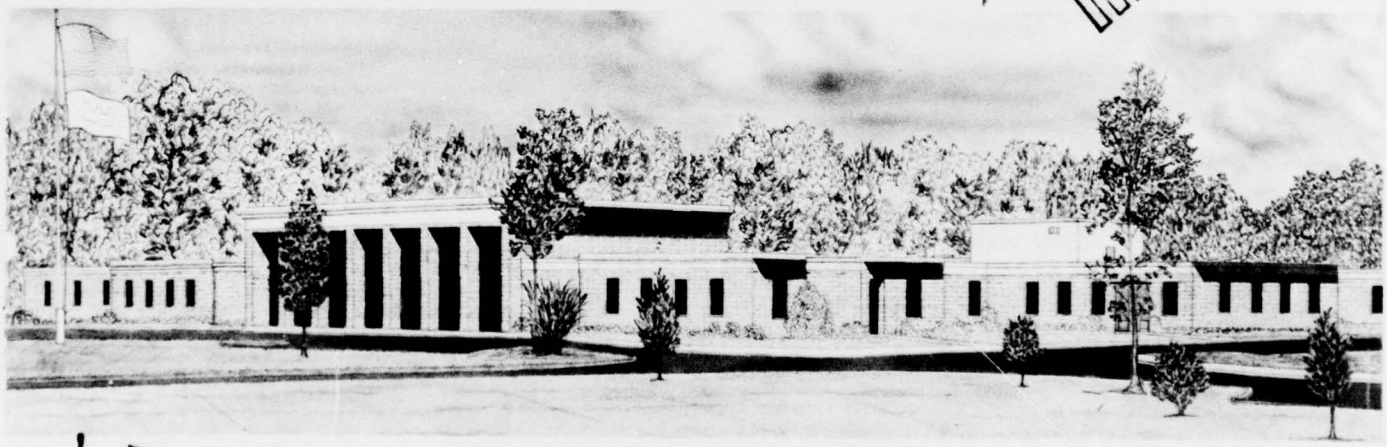
U. S. Army Engineer Waterways Experiment Station
P. O. Box 631, Vicksburg, Miss. 39180

September 1977
Final Report



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Carbon fibers	Glass fibers	Steel fibers
Concrete	Gypsum cement	
Fiber reinforced cement	Mortar (cement)	
Fiber reinforced concrete	Polymeric fibers	

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

A listing of 156 additional references with author index is given for fiber-reinforced cement and gypsum matrices, mortars, and concretes. Fiber types include steel, glass, plastic, asbestos, organic, carbon, and others.

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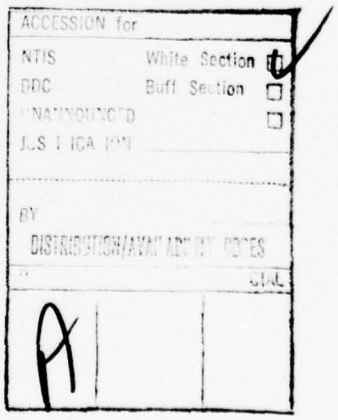

PREFACE

This bibliography supplement was prepared from source material provided to and obtained by the author during the normal conduct of business at the U. S. Army Engineer Waterways Experiment Station (WES), Vicksburg, Mississippi. It was compiled for use in the operation of the Concrete Technology Information Analysis Center (CTIAC).

Funds for the publication of this bibliography supplement were provided from those made available for operation of the CTIAC. This is CTIAC No. 25. The report was prepared by Mr. G. C. Hoff, Chief, Materials Properties Branch of the Concrete Laboratory, WES, under the general supervision of Messrs. Bryant Mather, Chief, Concrete Laboratory, and J. M. Scanlon, Chief, Engineering Mechanics Division.

The Director and Commander of WES during the preparation and publication of this bibliography supplement was COL John L. Cannon, CE. Technical Director was Mr. F. R. Brown.

CONTENTS

SELECTED BIBLIOGRAPHY ON FIBER-REINFORCED CEMENT AND CONCRETE

INTRODUCTION

The initial publication of this bibliography* included 660 references pertaining solely to fiber reinforcement of cement and gypsum matrices, mortars, and concretes. It was appreciated at that time that some of those references were not as complete as they could have been, that some references were overlooked, and that some new references would be forthcoming. This supplement remedies some of these situations. The following references were compiled from publications available directly to the author and from bibliographies existing in other published works on the subject. Attempts were made to provide as much information as possible for each reference although in some instances, where the reference information was not obtained directly from the publication, the reference may not be as complete as it could be. In general, papers solely on the theory of fiber reinforcement and composite materials which did not explicitly include fiber reinforcement of cements and concretes were not listed.

References 41, 60, 129, 131, and 133 of this publication represent modifications of references 144, 228, 508, 520, and 531, respectively, of the original bibliography.* Reference 40 contains many references of Japanese work in fiber reinforced cement and concrete with the references being described in Japanese. These were not included in this bibliography. Other references may still have been overlooked but will be cataloged when obtained and combined with new references for publication as a bibliography at a later date.

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* G. C. Hoff, C. M. Fontenot, and J. G. Tom, "Selected Bibliography on Fiber-Reinforced Cement and Concrete," Miscellaneous Paper C-76-6, June 1976, U. S. Army Engineer Waterways Experiment Station, CE, Vicksburg, Miss.

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